Structure from Motion Moving comera -> structure Camera Model Euler Angles

Tracking Method: - Optical Flow: Pixel displacement strack ing - Leypoint (Feature) Tracking Extract features (point/pattern) -> tracking challenges D Figure out keypoint to track 3 Points may change appearance (angle & shadow) (3) Points may appear/disapear Approches - Harris Corner

SZFT - Scale- Invaviant Feature Transform D keypoint: avgmax/min DOGK 高具斤差分函数

(Scale - invaniant)

Difference of Gaussian = (GK-G1)*]

ie. Gaussian of difference variance Scave

Descriptor 美健美扬进行 以成步 Histogram Sdominant gradient in State each small blocks 3 Potate Dominant 计算本序度直泊 Gradient INOrmalize

Supa Point

Keypoint 2D position

I mage -> Cov.

Whey point Description (Descripton)

Training (D) Train on simple shape

W. Keypoint label

@ Homograplic Adaption

Real picture p => [PR] -> Simple Model => Lead Picture w.lake

@ Joint Training

Real w label p ** PR >> Training S.p. >> Descriptor loss

[betwee P8 FR]